

Date: Fri, 8 Oct 93 15:54:23 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1196
To: Info-Hams

Info-Hams Digest Fri, 8 Oct 93 Volume 93 : Issue 1196

Today's Topics:

!!!Ham Questions for English!!!

Alpha Bravo; Luigi Maria

Converting an HT

DJ-F1T Experiences

FTP sites for p.c. programs

HF Mobile Antennas

idea for ground radials

I LOVE CW!!!!

Imminent Death of Ham Radio: 2m HT in Penney's Christmas Catalog

Info-Hams Digest V93 #1193

Kansas IP Address Coord?

Motorola ad in QST?

MultiBand Wire Antenna

ORBS\$281.2liners

TS50/MOBILE QUESTION

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>

Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>

Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 8 Oct 93 20:19:17 GMT
From: news-mail-gateway@ucsd.edu
Subject: !!!Ham Questions for English!!!
To: info-hams@ucsd.edu

In Info-Hams Digest V93 No. 1191 (item 1)
swrinde!cs.utexas.edu!math.ohio-state.edu!howland.reston.ans.net!
sol.ctr.columbia.edu!news.kei.com!news.oc.com!merlin.etsu.edu!gumae

r@network.uc writes:

>Hi all,

>

> My girlfriend is trying to get a research paper on ham radio. If

>

Mark,

Will we get to have the results posted?? (Condensed of course).

Ron Rossi

```
/=====/  
/ IBM Microelectronics           Internet:  rrossi@vnet.ibm.com  /  
/ H/P ASIC SRAM Design          VNET:    RROSSI at BTVLABVM   /  
/ Dept N93 Bldg 861-2           Voice:   802/769-7477         /  
/ 1000 River Road              RF:      N1PBT                 /  
/ Essex Junction, VT 05452-4299 /  
/                               /  
/ "I work for IBM, I don't represent its views!" /  
/                               /  
/=====/
```

Date: Fri, 8 Oct 1993 15:26:47 GMT

From: nmt.edu!mimbres.cs.unm.edu!ncar!asuvax!cs.utexas.edu!uwm.edu!
vixen.cso.uiuc.edu!howland.reston.ans.net!xlink.net!math.fu-berlin.de!
informatik.tu-muenchen.de!neumann@network.ucsd.edu

Subject: Alpha Bravo; Luigi Maria

To: info-hams@ucsd.edu

In article <1993Sep30.205636.16751@infodev.cam.ac.uk>

bck1@cl.cam.ac.uk (Brian Kelk) writes:

>From Rudolf Lais chibm5hp@ibmmail.com I have received these

>alphabets:

>+++++

>

>For spelling alphabet collectors:

>

>From the Swiss Telephonebook 1993:

^^^^

> Buchstabier-

> Tabelle

> (Deutsch)

Schweizer-^^^

In Germany it goes this way (only differences listed):

Deutsch:

>
>A Anna Anton
>B Bertha
>C Caesar
>D Daniel Dora
>E Emil
>F Friedrich
>G Gustav
>H Heinrich
>I Ida
>J Jakob
>K Kaiser Konrad
>L Leopold Ludwig
>M Marie Martha
>N Niklaus Nordpol
>O Otto
>P Peter Paula
>Q Quelle
>R Rosa Richard
>S Sophie Siegfried
Sch Schule
>T Theodor
>U Ulrich
>V Viktor
>W Wilhelm
>X Xaver Xantippe
>Y Yverdon Ypsilon
>Z Zuerich Zeppelin

>e' = e aigu, e` = e grave, ae = a umlaut, ue = u umlaut, c, = c cedille
>+++++

Christof

--
73 de DL1MHK, Christof A Neumann, neumann@informatik.tu-muenchen.de
--

Date: 8 Oct 93 20:20:28 GMT
From: news-mail-gateway@ucsd.edu
Subject: Converting an HT
To: info-hams@ucsd.edu

Just a reminder that when you order crystals for a commercial radio converted to amateur bands, be sure to specify that you want amateur tolerance and

not commercial tolerance crystals. This will save you a lot of money on the crystals! Reason: commercial tolerances are pretty tight to keep the radios very close to their assigned frequencies. We as amateurs are not constrained by any FCC regs in that area so amateur tolerance crystals are much cheaper to make.

- Scott W01G

=====

Scott Sminkey	email: sasminkey@eng.xyplex.com
Software Sustaining Engineering	voice: 508 952-4792
Xyplex, Inc.	fax: 508 952-4887
295 Foster St.	(Opinions, comments, etc. are mine,
Littleton, MA 01460	not Xyplex's...)

Date: 8 Oct 93 20:56:21 GMT
From: news-mail-gateway@ucsd.edu
Subject: DJ-F1T Experiences
To: info-hams@ucsd.edu

Ref: A question asked some weeks ago....

I have been abusing a DJ-F1T since May and have had no problems with the rig. This is the first amateur radio that I have owned however, but have not been disappointed with its performance. I use it mobile with an Icom lapel speaker mike and have had favorable comments on my audio. It doesn't get all that hot when transmitting full power. The forty memories are nice and each can hold all the information needed to operate (CCTS, +/-, shift amount (up to 15.995 MHz)). Beyond the 15.995 shift you would need to use adjacent memory channels and the "odd split" function. The lighted keypad is nice although I like the DJ-580 style better, where the keys themselves have the designation on them rather than the HT itself. The 5V battery pack would be nice to get more distance, but the 600mAh maximum is somewhat small. My 7.2V pack will last over 24 hours receive mostly. I have never used the 5V pack. There is little room to provide for a larger capacity pack though since the pack snaps onto the back of the radio. A disadvantage (in my view) is that the external power and speaker mike connectors are on the side of the unit. Having the mike connector there is not so bad, but holding the rig with external power applied is slightly awkward. The frame of the rig is aluminum and the wrist strap ring (should you care to use it) is part of this frame.

There are 3 usable DTMF memories, the forth is used for decoding a transmitted code, and I guess you could re-transmit it. The scan is a little slow 0.5s/chan, and when the radio is scanning the keys cannot be locked (bumping the keypad when in scan can stop the scan

and any of a number of other things after that). Although with the Alinco remote speaker mike you can change memories while the keypad is locked. There is a switch on the mike to lock out the remote channel plus/minus.

Overall I really like the radio. It's compact, reliable (so far), sensitive, and the stubby antenna that comes with it actually works pretty well (compared with an ANLI 15" and a 1/4wave). As far as the car on the radio trick goes notice that it's resting on the battery alone. I would buy the radio again if I were ever to buy just a 2M rig. My foreseeable future dilemma will be between the DJ-580 ,the FT-530, and the purported good front-end rejecting Standard dual bander.

Ron Rossi

```
/=====/  
/ IBM Microelectronics          Internet:  rrossi@vnet.ibm.com  /  
/ H/P ASIC SRAM Design         VNET:    RROSSI at BTVLABVM   /  
/ Dept N93 Bldg 861-2          Voice:    802/769-7477        /  
/ 1000 River Road              RF:      N1PBT                 /  
/ Essex Junction, VT 05452-4299 /  
/                               /  
/ "I work for IBM, I don't represent its views!" /  
/                               /  
/=====/
```

Date: 8 Oct 93 00:56:53 GMT
From: cis.ohio-state.edu!pacific.mps.ohio-state.edu!ohstpy.mps.ohio-state.edu!
elf@RUTGERS.EDU
Subject: FTP sites for p.c. programs
To: info-hams@ucsd.edu

Hello everyone,

Can someone send me info on ftp sites for programs to be used on the p.c.
i.e. UHF/VHF antenna design, Logging and Packet.

This is being posted for my father (WY8C).
Please send response to this address.

Thanks in advance,
Eric

Date: 7 Oct 93 17:42:58 EST

From: dale.ksc.nasa.gov!titan.ksc.nasa.gov!k4dii.ksc.nasa.gov!user@ames.arpa

Subject: HF Mobile Antennas

To: info-hams@ucsd.edu

In article <9310071320.AA05902@opus.xyplex.com>, sas@opus.xyplex.COM (Scott Sminkey - Sustaining Eng Group) wrote:

> You might want to read what Walter Maxwell W2DU has to say about the Hustler --
> oops, "unnamed but popular" -- mobile antenna system in his book "Reflections".
> He seems quite unimpressed with the design of the loading coils, suggesting
> that efficiency was sacrificed for a no-tuner-required low SWR characteristic.
> He suggests a different design for the loading coils which in combination with
> an antenna tuner will offer a much more efficient antenna system,

Scott-

There is no doubt that a lower-loss resonator might make some improvement in the Hustler. I've heard comments to the effect that the 75 and 40 meter resonators actually get warm to the touch, after heavy use.

However, I disagree that there could be a "much more efficient antenna design" of the same physical size, unless the lower mast were to be a longer portion of the total antenna length. Radiation occurs when current flows in a conductor. In the typical Hustler vertical whip configuration, the majority of the radiation occurs in the portion of the antenna between the feedpoint and the resonator, where the current is at its highest.

For practical purposes, the resonator only serves to make the antenna match the feedline. Although some current does flow in the whip above the resonator, it is at best, the same amount of current that would flow in the same length at the top of a full quarter wave vertical. That top segment supplies a nearly insignificant percentage of the total amount of energy radiated.

Yes, you probably could measure the improvement by using a higher-Q resonator. However, you would also find the bandwidth to be reduced. On 75 meters, my Hustler only allows full power from my TS-50, over about a 20 KHz spread. I'm not sure I could stand a much "better" resonator!

73, Fred, K4DII

Date: 8 Oct 93 18:51:27 GMT

From: ogicse!uwm.edu!cs.utexas.edu!sdd.hp.com!col.hp.com!srngenprp!

alanb@network.ucsd.edu

Subject: idea for ground radials

To: info-hams@ucsd.edu

Scott Ginsburg (ginsburg@wellfleet.COM) wrote:

: Has anyone tried the following idea for installing ground radials for an
: HF vertical: get some multi-conductor rotor cable, and make cuts that would
: result in each conductor being 1/4 wavelength on a single band. For example,
: if you wanted radials for 40, 30, 20, 15 and 10, start with a piece of
: 5-conductor cable of length 34', and make 4 cuts stripping away the unneeded
: wire. The cable after being chopped up would look something like:

: ----- 34'
: ----- 23'
: ----- 16'
: ----- 11'
: ----- 8'

If you put two of these back-to-back you would have the old standard multi-wire multi-band dipole. There will be some interaction between the wire lengths. A good way to trim each length to resonance would be to take two of the above radials and make a temporary dipole out of them and trim for lowest SWR on each band. Start with the lowest frequency band (longest) radial and work up. When you get the lengths right, make up some more identical sections (as many radials as you want.)

AL N1AL

Date: 8 Oct 93 20:40:51 GMT
From: ogicse!hp-cv!sdd.hp.com!hpscit.sc.hp.com!icon.rose.hp.com!
hpchase.rose.hp.com!cmoore@network.ucsd.edu
Subject: I LOVE CW!!!!
To: info-hams@ucsd.edu

jeffrey.n.jones (jeffj@cbnewsm.cb.att.com) wrote:

: I stand before you today my fellow CW lovers with a confession to
: make. I have strayed! Yes, indeed, I have strayed. In a moment of
: weakness I picked up my microphone and spoke upon the air....

I've always wanted to do that, but I don't know The Phone. I really am working on getting my Phone speed up, and I'm hoping that someday soon I can pass my Phone test. Until then I'm stuck with just CW.

Chris Moore
N6IYS
cmoore@mothra.rose.hp.com

Date: 8 Oct 93 20:53:16 GMT
From: ogicse!henson!netnews.nwnet.net!news.uoregon.edu!
systems%ns.uoregon.edu@network.ucsd.edu
Subject: Imminent Death of Ham Radio: 2m HT in Penney's Christmas Catalog
To: info-hams@ucsd.edu

In article <294fro\$k0a@funhouse.solbourne.com> kucharsk@solbourne.com (William Kucharski) writes:

>
> For those who felt that Radio Shack's introduction of a 2m HT two years ago
> meant the "imminent death of Ham Radio," those people should stay away from
> the 1993 JC Penney Christmas Catalog.
>
> There, on the bottom right hand corner of page 585 is a Midland 73-005 2m HT
> (\$299). Yes, it mentions you need a license. No, I doubt they'll ask if you
> have a ticket if you order one.
> --
> | William Kucharski, Solbourne Computer, Inc. | Opinions expressed herein
> | Internet: kucharsk@solbourne.com Ham: N00KQ | are MINE alone, NOT those
> | Snail Mail: 1900 Pike Road, Longmont, CO 80501 | of Solbourne Computer,
Inc.
> | President, "Just the Ten of Us" Fan Club | "Dittos from Longmont,
CO"

How many times does it have to be said...This is the USA...ANYONE can purchase ANY radio that is for sale thru regular retail channels...whether or not they have the right to transmit is a completely different issue. This post is not meant as a flame at N00KQ or to endorse illegal activity on the amateur bands, it is just a statement of fact of the law as it is written at this time.

--

Jeff Hite KF7SZ
Computing Center
U of Oregon
jeffh@ludwig.cc.uoregon.edu (of course this post is my opinion only)

Date: 8 Oct 93 21:30:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: Info-Hams Digest V93 #1193
To: info-hams@ucsd.edu

I use a center feed zep, fed with tuned 300 ohm foam tv twin lead, running a tuner, with an overall antenna length of about 260 feet. Works great! Never use the band (160) during the Summer months, but during the Winter "it is fantastic"! Don't tell anyone though, it will get crowded and end

up like 20.

Date: 8 Oct 93 20:31:34 GMT
From: news-mail-gateway@ucsd.edu
Subject: Kansas IP Address Coord?
To: info-hams@ucsd.edu

Could someone please tell me either who the Kansas IP address coordinator is or where I can find that info.

I'd appreciate any help. Please reply via E-Mail directly to the address below.

73, Mark. (aa2ma)

--

Mark F. Morgida
16 Dragoon Drive
Ft Leavenworth, KS 66027-1110
(913) 651-2048

internet:mmorgida@delphi.com

Date: 8 Oct 93 19:58:59 GMT
From: ogicse!uwm.edu!rpi!ees1a0.engr.ccny.cuny.edu!fnnews.fnal.gov!
usenet@network.ucsd.edu
Subject: Motorola ad in QST?
To: info-hams@ucsd.edu

In article <1993Oct8.125733.14879@rsg1.er.usgs.gov> bodoh@dgg.cr.usgs.gov (Tom Bodoh) writes:

>In article <2528@indep1.UUCP>, clifto@indep1.UUCP (Cliff Sharp) writes:

>|>...

>|> However, the intent of the ad seems to be to stop those who stole the
>|> Motorola internal programming software from retaining it or profiting by
>|> it. In THAT respect they're 100% right.

>|> --

>

>Additionally, it would seem that they are trying to create confusion and
>uncertainty about any aspect of messing with their equipment - and judging
>by the widely varying interpretations posted here, they've done a very
>good job. Sowing uncertainty can certainly be an effective deterrent...

>

>--

>+++++

>+ Tom Bodoh - Sr. systems software engineer, Hughes STX, N0YGT +
>+ USGS/EROS Data Center, Sioux Falls, SD, USA 57198 (605) 594-6830 +
>+ Internet; bodoh@dggs.cr.usgs.gov (152.61.192.66)

+

>+ "Welcome back my friends to the show that never ends!" EL&P

+

>+++++

Date: 8 Oct 93 19:52:07 GMT
From: news-mail-gateway@ucsd.edu
Subject: MultiBand Wire Antenna
To: info-hams@ucsd.edu

>I use an AEA HF analyst to view the SWR graph across frequency ranges.
> -David. KE6BWJ

David, please use your AEA HF analyst to view the SWR graph across
frequency ranges with a very short piece of transmission line AT THE
FEED-POINT OF THE ANTENNA. And would you please publish the results
here?

73, kg7bk@indirect.com

Date: 8 Oct 93 20:07:48 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$281.2liners
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-281.N
2Line Orbital Elements 281.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT
FROM WA5QGD FORT WORTH,TX October 8, 1993
BID: \$ORBS-281.N

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:
1 AAAAAU 00 0 0 BBBBB.BBBBBBBB .CCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJKKKKKZ
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

A0-10

1	14129U	83058B	93279.33702867	-.000000081	000000-0	10000-3	0	824
2	14129	27.1481	2.4799 6019419	119.8710	312.5993	2.05881755	77546	
UO-11								
1	14781U	84021B	93279.05004301	.000000226	000000-0	42445-4	0	4863
2	14781	97.8034	300.5131 0012576	8.4843	351.6574	14.69061909512997		
RS-10/11								
1	18129U	87054A	93278.03187301	.00085273	000000-0	89555-4	0	6917
2	18129	82.9286	157.4421 0012715	19.6721	340.4929	13.72324084314917		
AO-13								
1	19216U	88051B	93281.01224299	-.000000111	000000-0	10000-4	0	6955
2	19216	57.8884	290.6961 7215384	325.7101	4.0040	2.09725266	40723	
FO-20								
1	20480U	90013C	93278.57339399	.000000015	000000-0	64973-4	0	5012
2	20480	99.0200	113.7965 0540564	196.4232	161.8733	12.83221641171478		
AO-21								
1	21087U	91006A	93278.62193580	.00085270	000000-0	82657-4	0	9058
2	21087	82.9460	331.1060 0037009	73.6883	286.8338	13.74525744134612		
RS-12/13								
1	21089U	91007A	93278.80710254	.00085206	000000-0	15747-4	0	4717
2	21089	82.9242	200.0791 0030408	94.7391	265.7238	13.74027067133711		
ARSENE								
1	22654U	93031B	93253.49977207	-.000000056	000000-0	10000-3	0	236
2	22654	1.2946	120.3715 2933550	152.0186	99.4287	1.42203372	1781	
UO-14								
1	20437U	90 5 B	93278.71261438	.000000051	000000-0	27704-4	0	7775
2	20437	98.6087	1.7388 0010392	216.6364	143.4106	14.29794379193227		
AO-16								
1	20439U	90 5 D	93278.70814662	.000000043	000000-0	24331-4	0	5827
2	20439	98.6157	2.7150 0010548	217.0707	142.9747	14.29852298193235		
DO-17								
1	20440U	90005E	93278.75704706	.000000064	000000-0	32604-4	0	6276
2	20440	98.6160	3.0053 0010783	216.6836	143.3609	14.29989186193257		
WO-18								
1	20441U	90005F	93278.72813673	.000000043	000000-0	24642-4	0	6289
2	20441	98.6156	2.9956 0011265	216.8040	143.2369	14.29967652193254		
LO-19								
1	20442U	90005G	93278.72302054	.000000061	000000-0	31490-4	0	6252
2	20442	98.6164	3.1892 0011532	216.4188	143.6210	14.30059141193269		
UO-22								
1	21575U	91050B	93278.68970014	.000000068	000000-0	30010-4	0	3243
2	21575	98.4627	352.9751 0007676	337.8695	22.2159	14.36853977116537		
KO-23								
1	22077U	92052B	93278.76031854	.000000000	000000-0	10000-3	0	1603
2	22077	66.0854	92.6845 0002474	358.7953	1.3056	12.86280742	54059	
AO-27								
1	22825U	93061C	93274.12386161	-.000000103	000000-0	-33906-4	0	50
2	22825	98.6809	347.1732 0007375	241.9084	118.1352	14.27580958	727	
IO-26								

1	22826U	93061D	93274.19358382	.000000377	000000-0	16923-3 0	41
2	22826	98.6809	347.2439	0008040	243.2830	116.7529 14.27685136	732
K0-25							
1	22830U	93061H	93280.63866984	.000000210	000000-0	92350-4 0	106
2	22830	98.5818	353.5729	0011095	190.6946	169.4001 14.28007077	1650
NOAA-9							
1	15427U	84123A	93279.13769814	.000000082	000000-0	53856-4 0	5117
2	15427	99.0907	321.1737	0014269	215.0530	144.9711 14.13549770454446	
NOAA-10							
1	16969U	86073A	93279.02353885	.000000058	000000-0	32782-4 0	3543
2	16969	98.5169	290.7467	0013928	355.1377	4.9686 14.24834131366403	
MET-2/17							
1	18820U	88005A	93278.02288627	.00085229	000000-0	34359-4 0	9291
2	18820	82.5399	111.5660	0016269	173.6665	186.4705 13.84694601287049	
MET-3/2							
1	19336U	88 64 A	93278.65591096	.000000043	000000-0	99999-4 0	670
2	19336	82.5455	143.8069	0016538	176.2985	183.8263 13.16961563249754	
NOAA-11							
1	19531U	88089A	93277.93296591	.000000095	000000-0	61448-4 0	2594
2	19531	99.1439	255.9680	0012068	126.4320	233.7955 14.12920163259162	
MET-2/18							
1	19851U	89 18 A	93278.66462675	.000000064	000000-0	52396-4 0	8315
2	19851	82.5238	346.8440	0013488	218.9823	141.0368 13.84345556232475	
MET-3/3							
1	20305U	89086A	93278.50637636	.000000043	000000-0	10000-3 0	7838
2	20305	82.5499	87.0477	0015661	199.0628	160.9909 13.16023772189617	
MET-2/19							
1	20670U	90057A	93278.78753400	.00085200	000000-0	79036-5 0	6261
2	20670	82.5447	50.5344	0016314	136.3134	223.9320 13.84179033165422	
FY-1/2							
1	20788U	90081A	93278.78871784	.000000245	000000-0	18522-3 0	6788
2	20788	98.8529	301.8458	0015640	5.7512	354.3831 14.01302330158078	
MET-2/20							
1	20826U	90086A	93278.68011622	.00085238	000000-0	43276-4 0	6300
2	20826	82.5291	348.4787	0014670	44.0352	316.1974 13.83559776152568	
MET-3/4							
1	21232U	91030A	93278.71753460	.000000043	000000-0	10000-3 0	4496
2	21232	82.5460	349.5022	0014440	100.3202	259.9549 13.16455754117871	
NOAA-12							
1	21263U	91032A	93278.54453335	.000000137	000000-0	70259-4 0	7211
2	21263	98.6497	306.6003	0012106	256.5152	103.4685 14.22316133124339	
MET-3/5							
1	21655U	91056A	93278.52367502	.000000043	000000-0	10000-3 0	5075
2	21655	82.5533	296.5943	0014494	109.2260	251.0431 13.16824192102946	
NOAA-13							
1	22739U	93050 A	93277.06382288	.000000179	000000-0	10006-3 0	252
2	22739	098.9148	217.8797	0009985	121.5673	238.7045 14.10854129007833	
MET-2/21							

| P. O. Box 1685 |Modem: (615) 377-5980 - Bicycling and SCUBA Diving |
| Brentwood, TN 37024|Fax: (615) 459-0038 - Life Member - ARRL |
| root@jackatak.raider.net - "Plus ca changer, plus c'est la meme chose" |

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End of Info-Hams Digest V93 #1196
